

FORM PTO-1449 SIXTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		APR 18 2003	ATTY. DOCKET NO. 1875.0590009	APPLICATION NO. 09/766,048
		PATENT & TRADEMARK OFFICE	APPLICANT Carr et al.	FILING DATE January 19, 2001

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AM		
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DD	AO	27	Gimein, M., "You Bought. They Sold." Fortune, pp. 64-68, 72 and 74 (September 2, 2002).
DD	AP	27	Groshong, R. and Rusnak, S., "Exploit Digital Advantages in an SSB Receiver," Analog-To-Digital Converters (Reprinted from Electronic Design), pp. 3-103 thru 3-107 (June 13, 1991).
DD	AQ	27	Wirbel, L., "Broadcom demodulator fits cable's Docsis spec," Electronic Engineering Times, pp. 33 and 40 (July 13, 1998).
DD	AR	27	Kinget, P. and Steyaert, M., "A 1 Ghz CMOS Upconversion Mixer," IEEE 1996 Custom Integrated Circuits Conference, IEEE, pp. 197-200 (1996).

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<i>DA</i>	AM	<u>28</u>	Pratt, W.J., "High Linearity HBT Amplifier Targets Multicarrier Systems," <i>RF Design</i> , pp. 47, 48, 50, 52 and 54 (March 1996).
<i>DA</i>	AN	<u>28</u>	Weaver, D.K., "Design of RC Wide-Band 90-Degree Phase-Difference Network," <i>Proceedings of the I.R.E.</i> , pp. 671-676 (April 1954).
<i>DA</i>	AO	<u>28</u>	<i>SCM-L Product Description and Design Guide</i> , IBM Microelectronics, pp. 16-25.
<i>DA</i>	AP	<u>28</u>	<i>BCM3116 QAMLink MCNS/DOCSIS Receiver</i> , Broadcom Corporation, 2 Pages (1998).
<i>DA</i>	AQ	<u>28</u>	<i>BCM93300i Overview</i> , Broadcom Corporation, 1 Page (1998).
<i>DA</i>	AR	<u>28</u>	Ohr, S., "Broadcom hits Hot Chips with home, office thrusts," <i>Electronic Engineering Times</i> , p. 22 (August 16, 1999).

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<i>DD</i>	AM	<u>29</u>	Schonfeld, E., "Leading the New Chip Revolution," <i>Fortune</i> , pp. 136-138 and 140 (May 10, 1999).
<i>DD</i>	AN	<u>29</u>	Gardner, F.M., "Charge-Pump Phase-Lock Loops," <i>IEEE Transactions on Communications</i> , Vol. COM-28, No. 11, IEEE, pp. 321-330 (November 1980).
<i>DD</i>	AO	<u>29</u>	Czarmul, Z. et al., "Common-Mode Feedback Circuit with Differential-Difference Amplifier," <i>IEEE Transactions on Circuits and Systems - I: Fundamental Theory and Applications</i> , Vol. 41, No. 3, IEEE, pp. 243-246 (March 1994).
<i>DD</i>	AP	<u>29</u>	Hull, C.D. and Meyer, R.G., "A Systematic Approach to the Analysis of Noise in Mixers," <i>IEEE Transactions on Circuits and Systems - I: Fundamental Theory and Applications</i> , Vol. 40, No. 12, IEEE, pp. 909-919 (March 1994).
<i>DD</i>	AQ	<u>29</u>	Child, J. (ed.), "Last mile connection: a mish-mash of modulations," <i>Computer Design</i> , 5 Pages (November 1997).
<i>DD</i>	AR	<u>29</u>	McConnell, M., "LANs View Gigabit Ethernet Benefits," <i>Electronic Engineering Times</i> , CMP Media Inc., 2 Pages (June 8, 1998).

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	AM	<u>30</u>	McHale, T., "New Transceivers Cut Fast Ethernet Cost," <i>Electronic Buyer's News</i> , Issue 1043, CMP Media Inc., p. 35 (February 3, 1997).
	AN	<u>30</u>	Ellis, L., "Broadcom Collapses Cable-Modem Chip," <i>Multichannel News</i> , 1 Page (September 2, 1996).
	AO	<u>30</u>	Ellis, L., "Broadcom Ships MCNS Gear to CableLabs," <i>Multichannel News</i> , Vol. 18, No. 26, 1 Page (June 30, 1997).
	AP	<u>30</u>	Yoshida, J., "Cable industry embraces modem standard," <i>Electronic Engineering Times</i> , CMP Media Inc., 2 Pages (March 24, 1997).
	AQ	<u>30</u>	Wirbel, L., "QAM eyes cable modems," <i>Electronic Engineering Times</i> , CMP Media Inc., 2 Pages (September 2, 1996).
	AR	<u>30</u>	Thryft, A.R., "Two-Chip Cable-Modem Set Gains Support," <i>Electronic Buyer's News</i> , CMP Media Inc., 2 Pages (September 2, 1996).

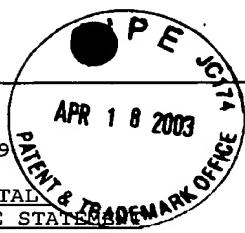
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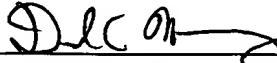
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	AM	<u>31</u>	Wright, M., "Delivering Digital Video," <i>EDN</i> , Cahners Publishing Company, p. 38(3) (March 14, 1996).
	AN	<u>31</u>	Goldberg, L., "MCNS/DOCSIS MAC Clears A Path for The Cable-Modem Invasion," <i>Communications Technology</i> , Penton Publishing, Inc., p. 69(5) (December 1, 1997).
	AO	<u>31</u>	Goldberg, L., "IC Opens 500-Channel Frontier To Cable Systems," <i>Electronic Design</i> , Penton Publishing, Inc., 6 Pages (November 7, 1994).
	AP	<u>31</u>	Rosen, C., "Broadcom turns defense technology know-how into communication ICs," <i>Electronic Business Buyer</i> , Cahners Publishing Company, 1 Page (March 1995).
	AQ	<u>31</u>	Burke, J., "Absolutely fabless," <i>The Red Herring</i> , 2 Pages (May 1997).
	AR	<u>31</u>	<i>Electronic Products</i> , from http://electronicproducts.com/ShowPage.asp?SECTION=3700&PRIMID=&FileName=JANPOYB1.JAN2000 , 10 Pages (Printed December 4, 2001).

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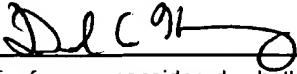
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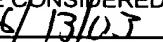
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	AM	<u>32</u>	Microtune Named to Red Herring's Top 50 Private Companies, from http://www.microtune.com/news/1999%20Releases/051900.html , 2 Pages (May 19, 1999).
	AN	<u>32</u>	Microtune Announces World's First NTSC/PAL and Multi-standard PAL TV Tuners-on-a-Chip, from http://www.microtune.com/news/1999%20Releases/061499.html , 3 Pages (June 14, 1999).
	AO	<u>32</u>	Microtune™ Expands Sales Organization and International Presence with Three New Rep Firms, from http://www.microtune.com/news/1999%20Releases/092099.html , 3 Pages (September, 1999).
	AP	<u>32</u>	Willis, C., "America's Top Technology Companies," <i>Forbes ASAP</i> , Forbes Inc., 3 Pages (April 5, 1999).
	AQ	<u>32</u>	"Stars of the new Millennium- Henry Nicholas: Focus is everything," <i>Electronic Business</i> , Cahners Business Information, 2 Pages (January 1999).
	AR	<u>32</u>	Lenati, C., "Chipmaker mantra: 'Broadband now,'" <i>Upside</i> , 6 Pages (November 1998).

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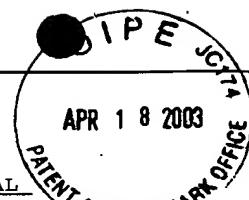


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AM	33	Rose, F., "Broadcom Set to Unveil TV-Internet Chip," <i>The Wall Street Journal</i> , Vol. CXXXIX, No. 92, Dow Jones & Company, Inc., 1 Page (November 9, 1998).
AN	33	Ohr, S., "Signals: Gbit Ethernet shift kicks into high gear," <i>Electronic Engineering Times</i> , CMP Media Inc., 1 Page (October 5, 1998).
AO	33	Barthold, J., "Broadcom Unveils Cable Modem Single Chip," <i>Cable World</i> , Primedia Intertec, 1 Page (September 28, 1998).
AP	33	Rose, F., "Broadcom Puts Cable-Modem Circuitry On Single Chip, a Leap for the Industry," <i>The Wall Street Journal</i> , Vol. CXXXIX, No. 57, Dow Jones & Company, Inc., 1 Page (September 21, 1998).
AQ	33	Armstrong, L., "Broadcom's Brain Trust," <i>Business Week</i> , The McGraw-Hill Companies, Inc., 2 Pages (September 7, 1998).
AR	33	Quigley, T. and Hartman, D., "Future proofing: MCNS Data-Over-Cable Protocol," <i>CED Magazine</i> , 4 Pages (March 1998).

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	AM	<u>34</u>	"Future Best," <i>Forbes Magazine</i> , Forbes Inc., 1 Page (November 3, 1997).
	AN	<u>34</u>	Pontin, J., "The Herring 100," <i>The Red Herring</i> , 5 Pages (September 1997).
	AO	<u>34</u>	"The Top 50 Public Companies," <i>The Red Herring</i> , 3 Pages (June 1999).
	AP	<u>34</u>	"Henry Samueli & Henry Nicholas," <i>TIME digital</i> , Time Inc., 1 Page (September 15, 1997).
	AQ	<u>34</u>	Press Release, "Broadcom Corp.'s Founders Ranked In The World's Top 50 Cyber Elite By Time Digital Magazine," Broadcom Corporation, 2 Pages (September 16, 1997).
	AR	<u>34</u>	Press Release, "Broadcom Adds Hayes, Intel, Motorola, Samsung, Sony and Thomson To Its Growing List of Cable Modem IC Customers," Broadcom Corporation, 3 Pages (December 10, 1997).

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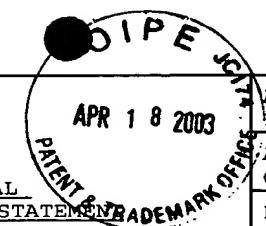
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	AM	<u>35</u>	Press Release, "Broadcom Announces New, Low-Cost, Low-Power, DSP-Based Fast-Ethernet Transceivers," Broadcom Corporation, 4 Pages (March 5, 1998).
	AN	<u>35</u>	Press Release, "General Instrument and Broadcom Announce Strategic Partnership for Next-Generation Digital Set-Top Terminal Silicon," Broadcom Corporation, 3 Pages (March 25, 1998).
	AO	<u>35</u>	Press Release, "Broadcom Corporation Wins Award For Cable Technology Innovation," Broadcom Corporation, 2 Pages (April 28, 1998).
	AP	<u>35</u>	Press Release, "Broadcom Demonstrates Voice-Over IP for Next-Generation MCNS Cable Modems," Broadcom Corporation, 3 Pages (May 4, 1998).
	AQ	<u>35</u>	Press Release, "Broadcom Announces a Low-Cost Unmanaged 100Base-TX Integrated Repeater," Broadcom Corporation, 3 Pages (May 5, 1998).
	AR	<u>35</u>	Press Release, "Broadcom Launches First Integrated Universal Satellite Receiver Chip to Support DVB, DSS and Primestar Satellite Systems," Broadcom Corporation, 3 Pages (May 18, 1998).

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<i>DN</i>	AM	<u>36</u>	Press Release, "Broadcom to Cooperate with Sony on the Development of Integrated Circuits for the Digital-TV Market," Broadcom Corporation, 2 Pages (May 19, 1998).
<i>DN</i>	AN	<u>36</u>	Press Release, "3Com Uses Broadcom's High-performance Quad-PHY Chips for New Dual-Speed, Stackable Hubs," Broadcom Corporation, 4 Pages (May 28, 1998).
<i>DN</i>	AO	<u>36</u>	Press Release, "Broadcom Announces Breakthrough VDSL Solution Offering Significant Bandwidth Improvements Over ADSL," Broadcom Corporation, 3 Pages (June 9, 1998).
<i>DN</i>	AP	<u>36</u>	Press Release, "Next Level Communications Selects Broadcom Corp.'s VDSL Silicon for Broadband Access Equipment," Broadcom Corporation, 4 Pages (June 9, 1998).
<i>DN</i>	AQ	<u>36</u>	Press Release, "Broadcom Announces Demodulator Chip That Doubles the Upstream Bandwidth for Two-way Cable Modem Deployment," Broadcom Corporation, 4 Pages (July 8, 1998).
<i>DN</i>	AR	<u>36</u>	Press Release, "RELTEC Selects Broadcom's VDSL Silicon for Its DISC★S® Broadband Access Equipment," Broadcom Corporation, 3 Pages (July 13, 1998).

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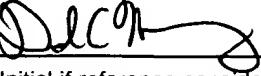
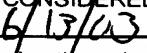
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	AN	<u>37</u>	Press Release, "Broadcom Corporation Reports Record First Quarter Revenue and Profit," Broadcom Corporation, 5 Pages (April 20, 1999).
	AO	<u>37</u>	Press Release, "Broadcom Corporation to Acquire Epigram, Inc., a Leading Provider of Home Networking Silicon," Broadcom Corporation, 5 Pages (April 25, 1999).
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	AQ	<u>37</u>	Press Release, "Broadcom Corporation Completes Acquisition of Maverick Networks, Epigram, Inc. and Armedia, Inc.," Broadcom Corporation, 3 Pages (June 1, 1999).
	AR	<u>37</u>	Press Release, "Broadcom Corporation Adds R&D Capability in India through Armedia, Inc. Acquisition," Broadcom Corporation, 4 Pages (June 1, 1999).

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	AM	38	Press Release, "Broadcom Delivers Second-Generation VDSL Silicon," Broadcom Corporation, 5 Pages (June 8, 1999).
	AN	38	Press Release, "Broadcom Demonstrates Its Advanced TV Graphics Capability Using the Excite@Home TV Client Software Environment," Broadcom Corporation, 3 Pages (June 14, 1999).
	AO	38	Press Release, "Broadcom's Chips Lead Industry in Cable Modem Customer Certification," Broadcom Corporation, 4 Pages (June 14, 1999).
	AP	38	Press Release, "Pace, Panasonic, Philips, Pioneer and Scientific-Atlanta Select Broadcom's New Chip for Digital Cable-TV Interactive Set-Top Boxes," Broadcom Corporation, 6 Pages (June 14, 1999).
	AQ	38	Press Release, "Broadcom Demonstrates Microsoft TV on OpenCable™ Development Platform," Broadcom Corporation, 3 Pages (June 14, 1999).
	AR	38	Press Release, "Broadcom, Stanford Telecommunications Settle Litigation," Broadcom Corporation, 2 Pages (June 22, 1999).

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		PATENT & TRADEMARK OFFICE	APPLICANT Carr et al.	FILING DATE January 19, 2001

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	AJ						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AM	39	Press Release, "Broadcom Corporation to Acquire HotHaus Technologies Inc., a VoIP Telecommunications Software Leader," Broadcom Corporation, 5 Pages (July 18, 1999).
	AN	39	Press Release, "Broadcom Corporation Reports Second Quarter Revenue and Profit," Broadcom Corporation, 6 Pages (July 21, 1999).
	AO	39	Press Release, "Microtune™ Revolutionizes Traditional Tuner Industry with the World's First TV Tuner on a Single Chip," Shelton Communications Group and Microtune Inc., 3 Pages (January 26, 1999).
	AP	39	E-Series RF 1:1 Transformer 0.3 - 200 MHz, M/A-Com, Inc., 1 Page.
	AQ	39	E-Series RF 4:1 Transformer 300 - 2500 MHz, M/A-Com, Inc., 1 Page.
	AR	39	E-Series RF 16:1 Transformer 0.3 - 120 MHz, M/A-Com, Inc., 1 Page.

EXAMINER	<i>DLC 2</i>	DATE CONSIDERED <i>6/13/03</i>
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AJ						Yes No
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DD	AM	40	SC1117 0.8 Amp Positive Voltage Regulator, Semtech Corp., 4 Pages (April 13, 1998).
DD	AN	40	NI-488.2M User Manual for Windows 95/Windows NT, National Instruments Corporation, pp. 6-1 - 6-10.
DD	AO	40	Cable-TV And Cable Modem Product Line, 3 Pages.
DD	AP	40	"Voltage-Controlled Oscillators," MiniCircuits, p. 156.
DD	AQ	40	Data Sheet:μPC2798GR Bipolar Analog Integrated Circuit, NEC Corporation, Pages 1-3 (1996).
DD	AR	40	SP5668 2.7GHz 3-Wire Bus Controlled Low Phase Noise Frequency Synthesizer, GEC Plessey Semiconductors, pp. 1-12 (January 1997).

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	AM	41	Data Sheet: 70 MHz Bandpass Filter: 8 MHz Bandwidth: Part Number 855677, Sawtek Incorporated, 1 Page (November 1, 1999).
	AN	41	R8 Communications Receiver Owner's Manual, R.L. Drake Company, pp. i, ii and 1-32 (1994).
	AO	41	Four-Band Communications Receiver Model SX-122 Operating and Service Instructions, Hallicrafters, pp. 1-25.
	AP	41	Communications Receiver Model SX-146 Operating and Service Instructions, Hallicrafters, pp. 1-23.
	AQ	41	Model R-4C Receiver Instruction Manual, R.L. Drake Company, pp. i-iii, 1-1 - 1-3, 2-1 - 2-6, 3-1 - 3-9, 4-1 - 4-3 and 5-1 - 5-11 (June 1977).
	AR	41	Fontaine, J., Market Backgrounder: Industry Challenges of the Digital Media Era Require Revolutionary Solutions, Micrtune Inc., pp. 1-3 (1998).

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<i>AM</i>	AM	<u>42</u>	Norsworthy, J., <i>Technology Backgrounder: World's First Single-Chip TV Tuner</i> , Microtune Inc., pp. 1-6.
<i>AN</i>	AN	<u>42</u>	Norsworthy, J., <i>Technology Backgrounder: World's First Single-Chip TV Tuner</i> , Microtune Inc., 6 pages.
<i>AO</i>	AO	<u>42</u>	<i>Microtuner™ 2000 (NTSC, PAL or NTSC/PAL) For Cable Applications</i> , Microtune Inc., 2 Pages (1999).
<i>AP</i>	AP	<u>42</u>	<i>Microtuner 2000™:Single Chip TV Tuner-Receiver</i> , Microtune Inc., 4 Pages (1999).
<i>AQ</i>	AQ	<u>42</u>	<i>Microtuner 2000™:Single-Chip Broadband Tuner-Receiver</i> , Microtune Inc., 2 Pages (1999).
<i>AR</i>	AR	<u>42</u>	<i>Very High-Speed Digital Subscriber Line (VDSL) Frequently Asked Questions</i> , Broadcom Corporation, pp. 1-4.

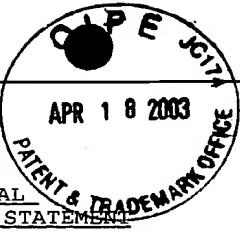
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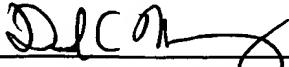
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	AJ						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AM	43	Feature Comparison of ADSL and VDSL, Broadcom Corporation, 1 Page (June 2, 1996).
	AN	43	Using SpectreS in Analog Artist 4.3, 3 Pages.
	AO	43	Obtaining Accurate Distortion Measurements Using the Analog Workbench, Cadence Design Systems, Inc., 29 Pages (1995).
	AP	43	2.85 To 12 Volt Fixed Positive Local Voltage Regulator, Issue 2, 18 Pages (April 1997).
	AQ	43	BAR 63-02W Silicon Bar Diode, Siemens, 2 Pages.
	AR	43	PC/TV Applications With The Microtuner™ 2000, Microtune, Inc., 3 Pages (1999).

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	AJ						Yes No
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	AM	44	Microtune Fast Facts, Microtune Inc., 2 Pages (1998).
	AN	44	Market Issues Solved by the MicroTuner Market Background Briefing, 2 Pages.
	AO	44	Microtune, Microtune, Inc., 3 Pages.
	AP	44	Conexant/Microtune Launch Plan, 2 Pages (June 1998).
	AQ	44	Microtune Corporate Profile, Microtune Inc., 5 Pages (1998).
	AR	44	Conexant - broadband access for the next century, Microtune Inc., 4 Pages (1999).

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>D</i>	AM	45	broadband access for the next century, Microtune Inc., 5 Pages (1999).
<i>D</i>	AN	45	Okwit, S., "An Historical View of the Evolution of Low-Noise Concepts and Techniques," <i>IEEE Transactions on Microwave Theory and Techniques</i> , Vol. MTT-32, No. 9, IEEE Microwave Theory and Techniques Society, pp. 1068-1082 (September 1984).
<i>D</i>	AO	45	Kuhn, W.B., <i>Design of Integrated, Low Power, Radio Receivers in BiCMOS Technologies</i> , Dissertation submitted to Virginia Polytechnic Institute and State University, pp. i-xvii and 1-295 (1995).
<i>D</i>	AP	45	Darlington, S., "Realization of a Constant Phase Difference," <i>The Bell System Technical Journal</i> , Vol. XXIX, No. 1, American Telephone and Telegraph Company, pp. 94-104 (January 1950).
<i>D</i>	AQ	45	Inamori, H. et al., "A 2GHz Down Converter IC Fabricated by an Advanced Si Bipolar Process (DNP-III)," <i>IEEE Transactions on Consumer Electronics</i> , Vol. 36, No. 3, IEEE Consumer Electronics Society, pp. 707-711 (August 1990).
<i>D</i>	AR	45	Luck, D.G.C., "Properties of Some Wide-Band Phase-Splitting Networks," <i>Proceedings of the I.R.E.</i> , Vol. 37, No. 2, The Institute of Radio Engineers, Inc., pp. 147-151 (February 1949).

EXAMINER <i>D</i> <i>LCR</i>	DATE CONSIDERED <i>6/13/03</i>
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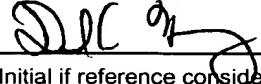
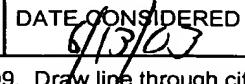
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	AM	46	Saraga, W., "The Design of Wide-Band Phase Splitting Networks," <i>Proceedings of the I.R.E.</i> , Vol. 38, No. 7, The Institute of Radio Engineers, Inc., pp. 754-770 (July 1950).
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